

20000716.ba v02_n948.bam.20000716

>From ???@??? Sun Jul 16 12:26:29 2000 -0500
Message-Id: <200007161725.e6GHPE003357@sco.theporch.com>
Date: Sun, 16 Jul 2000 12:24:44 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2948

BOATANCHORS Digest 2948

Topics covered in this issue include:

- 1) rx ident, opps, missed a bit
by BEN NOCK <G4BXD@compuserve.com>
- 2) Re: CMH 26012A key, who made this?
by Neal McEwen <nmcewen@metronet.com>
- 3) Capacitor Manufacturer's Data Sheets
by Arden Allen <gumbear@pacbell.net>
- 4) Sweatfest
by philip mccooy <dgnova@erols.com>
- 5) Re: Product Detector for SX-110 -- Chapter III
by Arden Allen <gumbear@pacbell.net>
- 6) SX-25 + Speaker F.S.
by jmccarty@lucent.com (John J McCarty)
- 7) KPH Verification Information
by Dick Dillman <ddillman@igc.org>
- 8) "Shielded" N and BNC Connectors on HP 425A
by Jim Hill <slimjimzz@home.com>
- 9) RE: "Shielded" N and BNC Connectors on HP 425A
by "Bill Hawkins" <bill@iaxs.net>
- 10) RE: Product Detector for SX-110 -- Chapter III
by "Bill Hawkins" <bill@iaxs.net>
- 11) Electrc Radio - Back Issues Wanted
by "John Dilks, K2TQN" <oldradio@worldnet.att.net>
- 12) Re: "Shielded" N and BNC Connectors on HP 425A
by David Ross <ross@hypertools.com>
- 13) Re: "Shielded" N and BNC Connectors on HP 425A
by Jim Hill <slimjimzz@home.com>
- 14) WTB: Tek 500 series scop plugin
by Arden Allen <gumbear@pacbell.net>
- 15) Balky Heath TT-1 needs calibration
by Dexter Francis <sutair@home.com>
- 16) S-40-A
by Bob Roehrig <broehrig@admin.aurora.edu>
- 17) SRR-11 Receiver for Trade
by Paul Bernhardt <bern@ppdmail.nrl.navy.mil>
- 18) Dow-Key Relay Wanted

- by TNeill11648@aol.com
- 19) Re: Dow-Key Relay Wanted
by Arden Allen <gumbear@pacbell.net>
 - 20) Re: "Shielded" N and BNC Connectors on HP 425A
by Ed Zeranski <ezeran@concentric.net>
 - 21) Re: Looking for NOS paper caps
by Jack Harper <jharper@bsi2000.com>
 - 22) Re: "Shielded" N and BNC Connectors on HP 425A
by Jim Hill <slimjimzz@home.com>
 - 23) hamfest
by Bob Roehrig <broehrig@admin.aurora.edu>
 - 24) Re: Dow-Key Relay Wanted
by agemi <agemi@alltel.net>
 - 25) Re: "Shielded" N and BNC Connectors on HP 425A
by Al Klase <skywaves@bw.webex.net>

Date: Fri, 14 Jul 2000 07:13:39 -0400
From: BEN NOCK <G4BXD@compuserve.com>
Subject: rx ident, opps, missed a bit
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200007140713_MC2-AC4A-C474@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

opps.... missed a bit off the address...

I need help in identification of a set. Please
have a look at:

<http://www.qsl.net/g4bxd/g4bxd12.htm>

I know the two top units, tx pa and atu are from =

the SRT18 set, but it is the rx unit on the bottom that needs
identification. =

If anyone can help with a circuit for the rx I would be most
grateful. =

cheers, Ben G4BXD.

Message-ID: <396F1CB9.5F45C879@metronet.com>
Date: Fri, 14 Jul 2000 08:59:21 -0500
From: Neal McEwen <nmcewen@metronet.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: CMH 26012A key, who made this?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All Navy Keys with the CMH letters were made by American Radio hardware.
For the taxonomy of the remaining numbers and why this numbering scheme
see my web article on Navy keys.

http://www.metronet.com/~nmcewen/Navy_numbers.html

--

73 de K5RW, Neal McEwen, at "The Telegraph Office", nmcewen@metronet.com
A WWW Page for Telegraph Key Collectors and Historians
http://www.metronet.com/~nmcewen/tel_off.html

Date: Fri, 14 Jul 2000 11:12:11 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Capacitor Manufacturer's Data Sheets
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FXP00AYE9LP5Q@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Capacitators;

After searching multiple manufacturer's websites I finally found Evox Rifa to have enough integrity to give comprehensive specifications on their capacitors. I picked as an example their PFR series polypropylene film and foil high frequency series. You will find that typical self inductance for capacitors with respect to size is specified. I also refer you to the graph entitled "Resonance Frequencies". You will see that the self resonance frequencies (SRF) of values of capacitance typical to vacuum tube radios easily fall into the HF (3-30 MHz) frequency range. This should serve as a warning to those who gleefully accept "rules of thumb" about types of replacement capacitors. Go to:

<http://www.evov-rifa.com/cap_catalog/pulsecap/pfr.pdf>

Replacing screen and plate circuit bypass capacitors in the RF and first mixer stages of receivers should be done with care. As Hank van Cleef recommends, keep lead lengths as short as possible, using new ground points if necessary. The shorter the lead length the higher the SRF. Using two

or more capacitors in parallel with smaller values that add up to the original installed value is a way to shove the SRF up.

I personally have not replaced enough capacitors in old radios to be able to say with conviction that any particular type of capacitor is either suitable or unsuitable for use. Most of my capacitor replacements have used good equivalent technology parts, not because I try to avoid present day components, but because I've obtained sufficient stocks of older parts from the flea market trail. I have little experience using the smaller size metalized film caps but I see no reason for them to be unsuitable other than the problem of more exposed lead length. When replacing capacitors, I follow the old rule of "Capacitas Emptier"

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <396F861C.3B93238C@erols.com>
Date: Fri, 14 Jul 2000 17:29:00 -0400
From: philip mccoey <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Sweatfest
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Is there going to be a sweatfest this weekend, at brunswick Maryland ?

I have a load of receivers I plan to get rid of.

Philip McCoy dgnova@erols.com

Date: Fri, 14 Jul 2000 21:14:20 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Product Detector for SX-110 -- Chapter III
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FXQ00L8B13DB9@mta5.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Modiphiles;

How time flies when your working on boatanchors! I've been working nearly full time the last three days on the SX-110 installing the product detector circuit. The major step in the installation was punching a hole for the new octal socket. I dug out my old high school machine shop project chassis punch from the toolbox in the garage and proceeded. I had to exert

a lot of force on the wrench to get the punch to do its job. What a way to test for arthritis in my joints. Inspection of the punch after popping the "wavy washer" out showed the threads on the bolt to be leaning so far over that I doubted I would be able to punch a hole again. I was able to get an exact replacement bolt at the auto parts store. Only time will tell when I will use the punch again.

Finally, I got things wired up except for a few resistors with values I knew I would have to fudge which I tacked in. It worked! I fiddled resistor values to get mixer injection level correct and the AM and CW/SSB output levels equal. After checking things out with the test equipment and recentering the BFO control I started some on air listening tests. It soon became apparent there was one minor shortcoming to this receiver besides the obvious one of too wide a bandwidth. As AGC voltage varied with signal strength the receiver's oscillator would vary in frequency. Oh, that's why they have voltage regulators in those fancy radios! A minor oversight of course. It doesn't affect SSB reception but it makes CW a little more interesting. It seems that a voltage regulator addition to the receiver might improve the situation. I'll have to do some tests to see if voltage stabilization of the 6SA7 screen voltage will reduce oscillator frequency shifting significantly.

I eventually switched to AM and cruised around the SWBC bands and ended up listening to the AM guys on 3870. Sounding good. I returned to the 10 meter band to listen to noise to see how low signal level detection was working. Near silence with a few crackles. Deja-vu all over again! I had forgotten, I've been down this road before. Germanium diodes are the pits for detectors because when they get warmed up inside a hollow state furnace they get so leaky they make better resistors than rectifiers. Sure enough the radio sprung to life with a rush of noise when I gave the 1N270's a bath with coolant. Retracing my steps I tried foreword biasing the diodes by injecting some current through a 4.7 megohm resistor into the detector circuit. Nope, that made things even quieter. It's counterintuitive but I tried reverse biasing the diodes. That made the radio hiss nicely but at only one narrow temperature range. Air conditioning for the detector diodes? Forget that.

After playing with biasing silicon diodes with considerably poorer low level detection but at least better temperature performance I remembered I had recently acquired some Hewlett Packard 1N5711 schottky signal diodes. To my pleasant surprise their linearity was better with only slightly reduced sensitivity compared to germanium diodes. Injecting between 500 and 800 nanoamps of foreword bias produced better detection than even the germaniums! And practically unaffected by temperature. I looked up the diode specs on the Agilent website (www.semiconductors.agilent.com) and learned that the 1N5711 is operational to 200 degrees C. I'm happy.

Converting a cheapy radio to automatic SSB reception sure brings out the

weaknesses in performance and design. It also shows up a goof or two from previous repair jobs. There was considerable backlash on bandspread tuning. The dial cords had been replaced with monofilament fishing line. Not being a fisherman I assumed that there was some stretching of the fishing line going on with the more complicated bandspread dial cord arrangement. The fishing line was NOT stretchy. With further tinkering I discovered several problems which no doubt came about when a frustrated novice dial cord restringer had disassembled the tuning capacitor reduction gear mechanism in an attempt to learn how to restring the *&^%\$#@! thing (poor fellow). The antibacklash springs were not compressed on the capacitor shaft gear and the pinion gear's shaft was not in its centering hole so the two gears would mesh fully. He also probably didn't understand the purpose of the tuning capacitor shaft support that keeps the gears meshed. That seemingly redundant part was a hint that at first I didn't fully appreciate. Too bad today's kids can't take apart old alarm clocks to start their basic mechanical training. Oh well, I guess the robots will do it for us from now on.

I still have to fine tune the AM noise limiter function but it's not a big deal, there's no noise limiter for CW/SSB. The last major job in this bout of modification mania is to "hi-fi" the audio output amplifier.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: jmccarty@lucent.com (John J Mccarty)
Date: Fri, 14 Jul 2000 23:54:04 -0500 (CDT)
Message-Id: <200007150454.XAA07227@nwsqpb.ih.lucent.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SX-25 + Speaker F.S.

Group;

I'm helping out a gentleman who wants to sell a SX-25 and matching speaker. I gave the radio a quick look and it seems complete with no external mod's. If there is interest, I can supply more info. Shipping would be from 60516 (Ill).

John n9hrt
jmccarty@lucent.com

Message-Id: <3.0.5.32.20000714223828.007c35a0@pop.igc.org>
Date: Fri, 14 Jul 2000 22:38:28 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Dick Dillman <ddillman@igc.org>
Subject: KPH Verification Information
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For those wishing a verification of their reception of the KPH commemorative broadcast on 12 July we will prepare a radiogram on the original RCA radiogram blank conforming that you received the station on the night of nights.

Please send your report to me by mail at:

Dick Dillman
Maritime Radio Historical Society
435 Utah Street, No. 4
San Francisco, CA 94110
USA

Vy 73,

Dick/"RD"

Dick Dillman, W6AWO
Chief Operator at K6KPH of the Maritime Radio Historical Society
Collector of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Message-Id: <4.1.20000714233052.0093c7d0@mail>
Date: Fri, 14 Jul 2000 23:44:51 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Hill <slimjimzz@home.com>
Subject: "Shielded" N and BNC Connectors on HP 425A
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have two HP 425A DC Microvolt-Ammeter's, both of which have unusual input connectors. One resembles a N female, and the other a BNC male, but

both have an extra sleeve inside. After some head scratching and checking the manual, I decided the extra sleeve allows the probe shield to be connected inside instead of to the outside of the coaxial connector, which is grounded to the case.

I don't have the probes and doubt if I can find them, so the next best approach is to find the connectors. Any ideas regarding what they are called and where I can find them? I know there is a twinx (sp?) connector, but it had an extra pin. This connector has an extra sleeve.

73's Jim

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: "Shielded" N and BNC Connectors on HP 425A
Date: Sat, 15 Jul 2000 13:18:32 -0500
Message-ID: <000001bfee89\$159ffd00\$290aa8c0@darius>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Believe the BNC style is a Triaxial connector. We used them on a communications network for industrial process control. The wire was shielded twisted pair, so the IBM style twinax connector could have been used, but the triax connector allows you to rotate the joint because all connections are concentric. Bad decision, though. At startup of the first system in England in 1983, we watched in horror as the center pin of one of the only four triax connectors in Europe dropped through a crack in the floor.

I have some Tee connectors somewhere, but no cable connectors.

Regards,
Bill Hawkins

P.S. That second shield is probably important for measuring RF microvolts.

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Product Detector for SX-110 -- Chapter III
Date: Sat, 15 Jul 2000 13:18:35 -0500
Message-ID: <000101bfee89\$16f74fa0\$290aa8c0@darius>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Arden,

Really enjoy reading about somebody who is actually doing something besides accumulating obsolete technological artifacts. Touch of envy, too.

Never saw a metal cutting tool that didn't work better with oil. I remember the difference it made when Father pointed that out to me. Deformed threads don't work too well, either, but they might not be deformed if oil had been used on the threads and the cutting surfaces.

If you have an adjustable regulated supply (and you do seem to have a well-equipped shop) how about balancing the output to the voltage you want to stiffen, and just clipping on the external supply?

Nice tip on the use of Schottky diodes. Thanks.

Regards,
Bill Hawkins

Message-Id: <4.3.0.20000715151530.00ac5320@postoffice.worldnet.att.net>
Date: Sat, 15 Jul 2000 15:17:17 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: "John Dilks, K2TQN" <oldradio@worldnet.att.net>
Subject: Electric Radio - Back Issues Wanted
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Electric Radio - Back Issues Wanted

To all,

I am looking to fill in missing issues of Electric Radio. I need:

14 through 17
and 19 through 75

I have a number 2 and a number 102 to trade. I also have other magazines and books for trade.

--

73' John Dilks, K2TQN
QST Old Radio Column - Support Page

<http://www.eht.com/oldradio/arrl/>

Please visit my OldRadio Museum
<http://www.eht.com/oldradio/museum/>

Message-ID: <3970C3E2.2F586968@hypertools.com>
Date: Sat, 15 Jul 2000 13:04:50 -0700
From: David Ross <ross@hypertools.com>
MIME-Version: 1.0
CC: boatanchors@theporch.com
Subject: Re: "Shielded" N and BNC Connectors on HP 425A
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
To: Old Tube Radios <boatanchors@theporch.com>

BAfolks -

Bill Hawkins wrote:

>
> Believe the BNC style is a Triaxial connector.
> ...
>
> I have some Tee connectors somewhere, but no cable connectors.

Do your triaxial connectors have the usual two 'lug' pins on the female connector shell, or do they have three lug pins?

I have some cables with the three lug variety of triax BNC connectors on one end - judging by the labels on the cables, they were used in some telephony application.

73

Dave Ross N7EPI ross@hypertools.com

Message-Id: <4.1.20000715135104.028c1680@mail>
Date: Sat, 15 Jul 2000 13:55:15 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Hill <slimjimzz@home.com>
Subject: Re: "Shielded" N and BNC Connectors on HP 425A
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dave:

The HP 425A uses the 2-lug variety. Too bad!!! (assuming I could have made a deal with you for one of the cables).

Jim

Date: Sat, 15 Jul 2000 17:10:11 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: WTB: Tek 500 series scop plugin
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FXR00EEKKFJ1I@mta6.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Teksters;

I'm looking for a Tektronix plugin for the 545, 547, etc. mainframes that I can convert into a plugin repair fixture. One of the older, simpler plugins that no one has a use for, operational or not, would be just fine. The only thing that has to be good is the connector that plugs into the mainframe. Thanks.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <3971105A.7B753153@home.com>
Date: Sat, 15 Jul 2000 19:31:09 -0600
From: Dexter Francis <sutair@home.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Balky Heath TT-1 needs calibration
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Greetings all -

I'm trying to get a Heath TT-1 tube tester working. It would always bang the stop on the meter when I got it. I found a minor wiring error that seems to have at least calmed it down. Now I need the calibration procedure. I've tried the Heath virtual museum web site already. Can anyone help me sort this out?

-df

Date: Sat, 15 Jul 2000 21:36:15 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: S-40-A
Message-ID: <Pine.OSF.3.96.1000715213511.32133D-1000000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Can anyone tell me what the going price is for a S-40A receiver?

"Nostalgia is a thing of the past"
E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-4222
PLEASE PUT ALL REPLIES IN ASCII TEXT ONLY

Date: Sat, 15 Jul 2000 22:40:44 -0400 (EDT)
From: Paul Bernhardt <bern@ppdmail.nrl.navy.mil>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SRR-11 Receiver for Trade
Message-ID: <Pine.LNX.4.10.10007152238530.29819-1000000@ppdpro0.nrl.navy.mil>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I have a mint condition SRR-11 with manual and extension cable that I
would like to trade for a similar condition SRR-12 or SRR-13.
Thanks, Paul Bernhardt

Work: P.A. Bernhardt	Home: Paul Bernhardt, KF4FOR
Code 6794	5704 Ridge View Dr.
Naval Research Laboratory	Alexandria, VA 22310
Washington, DC 20375	
Tel: 202-767-0196	703-960-9656
FAX: 202-767-0631	

From: TNeill11648@aol.com
Message-ID: <24.7c76f60.26a2808c@aol.com>
Date: Sat, 15 Jul 2000 23:05:48 EDT
Subject: Dow-Key Relay Wanted
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The assistance of the group would be appreciated. I am looking for a DPDT
Dow-Key antenna relay. I need the type used with a transceiver and linear

amplifier. They differ from the standard Dow-Key antenna relays used with a receiver and transmitter in that they have four (4) SO-239 connectors. The DPDT relays generally have an external set of contacts and I need those also. Any assistance in locating one would be greatly appreciated. Mine finally failed after 35 years.

Thank you.

Tom K4XG

Date: Sat, 15 Jul 2000 21:28:07 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Dow-Key Relay Wanted
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FXR0040MWDD4K@mta6.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Tom;

> Mine finally
> failed after 35 years.

Did the coil open up? You could rewind the coil.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <4.2.0.58.20000715214111.00971350@pop3.concentric.net>
Date: Sat, 15 Jul 2000 21:47:07 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Ed Zeranski <ezeran@concentric.net>
Subject: Re: "Shielded" N and BNC Connectors on HP 425A
Cc: boatanchors@theporch.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>
> Do your triaxial connectors have the usual two 'lug' pins on the
>female connector shell, or do they have three lug pins?
>
> I have some cables with the three lug variety of triax BNC connectors
>on one end - judging by the labels on the cables, they were used in
>some telephony application.
>

>
>73
>Dave Ross N7EPI ross@hypertools.com
Dave,

The Twinax connectors are use in a lot of balanced digital signal (base band) applications. The company to search for is Trompeter...the largest supplier. The 2 or 3 lug choice is an option when the purchase is made. Geeze, I've only used a few thousand of them! The hardcopy catalog is in my office so can probably match numbers on Monday.

Message-Id: <4.1.20000714140248.0a94c678@mail.bsi2000.com>
Date: Fri, 14 Jul 2000 14:10:31 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Jack Harper <jharper@bsi2000.com>
Subject: Re: Looking for NOS paper caps
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:46 PM 7/13/2000 -0600, you wrote:

>As van Cleef discourses
<snip>
<...Those are vitamin
>L and don't mix happily with vitamin C, particularly in new modern
>condensers that are not loaded with vitamin R.
<snip>
>...and chasing parasitics is a nuisance.
<snip>

About a year ago, I was striving to get a Hammarlund HX-50 transmitter back to life -- I was bitten mightily hard by parasitics that arose from simply replacing old capacitors with new whizz-bang jobs with loooong leads...

After my stumbling around scratching in the dirt for a couple of weeks, someone on the List (Bobbie I think) pointed out the probable problem -- VHF parasitics floating about caused by the loooooong leads et. al.

I did what Hank pointed out in his above post -- added a resistor etc to the cap and the thing went away. It is clear to me that designing RF circuitry -- especially for volume production where things have to work reliably and cheaply -- is a true art. The equations that I diligently learned in school don't have all that much value -- they are sure pretty though...

Regards to the List -- and Thanks to Hank and Bobbi for the additional lessons...

Jack, W0YJ (Friend to all things Hammarlund -- even HX-50s)

Jack Harper
BSI2000, Inc.

303-231-9095

Lakewood, Colorado USA

303-898-6126 (Cellular)

"Optical Cards... A Spectrum of Solutions

Optical Cards for Access Control, Medical, and Financial Applications

Visit our Web Page: <http://www.bsi2000.com> (Last Update: 000108)

Message-Id: <4.1.20000716081340.00ce1ef0@mail>

Date: Sun, 16 Jul 2000 08:24:53 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: Jim Hill <slimjimzz@home.com>

Subject: Re: "Shielded" N and BNC Connectors on HP 425A

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Dave:

I searched the Trompeter site, and decided the BNC triaxial connectors are TRB (2-lugs), and TRC (3-lugs). I couldn't find any N-equivalents. Maybe Ed can verify this when he checks his hard copy catalog this coming week.

Small quantity prices are impressive - impractical to purchase new.

Jim

Date: Sun, 16 Jul 2000 10:33:14 -0500 (CDT)

From: Bob Roehrig <broehrig@admin.aurora.edu>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: hamfest

Message-ID: <Pine.OSF.3.96.1000716103146.8141B-1000000@admin.aurora.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hope to see some of you at the FRRL hamfest next Sunday in Sugar Grove, IL. I will be bringing Halli, Johnson, Swan, Gonset & Kenwood goodies to

sell.

"Nostalgia is a thing of the past"

E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net 73 de Bob, K9EUI

CIS: Data / Telecom Aurora University, Aurora, IL

630-844-4898 Fax 630-844-4222

PLEASE PUT ALL REPLIES IN ASCII TEXT ONLY

Date: Sun, 16 Jul 2000 12:36:38 -0700
From: agemi <agemi@alltel.net>
Message-ID: <1052148455.20000716123638@alltel.net>
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Dow-Key Relay Wanted
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello TNeill1648,

Saturday, Saturday, July 15, 2000, you wrote:

Tac> The assistance of the group would be appreciated. I am looking for a DPDT
Tac> Dow-Key antenna relay. I need the type used with a transceiver and linear
Tac> amplifier. They differ from the standard Dow-Key antenna relays used with a
Tac> receiver and transmitter in that they have four (4) SO-239 connectors. The
Tac> DPDT relays generally have an external set of contacts and I need those also.
Tac> Any assistance in locating one would be greatly appreciated. Mine finally
Tac> failed after 35 years.

Tac> Thank you.

Tom, Check for a open at the terminals and you might
look for surplus relays that you can exchange coils.
The dowkey is a old design, there were not many
"standard" bobbed styles.

I use two coaxial relays for input and output of my
HPA.

PS: Sorry, my Russian E-mail will not delete the
original message.....

agemi (AKA) KD4AS

mailto:agemi@alltel.net

Message-ID: <3971EFE2.920C3274@bw.webex.net>
Date: Sun, 16 Jul 2000 13:24:50 -0400
From: Al Klase <skywaves@bw.webex.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: "Shielded" N and BNC Connectors on HP 425A
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I think I have a couple of the 3-lug BNC's. Contact me and we'll try to figure out if they're the right ones.

Al

Jim Hill wrote:

>

> Dave:

> I searched the Trompeter site, and decided the BNC triaxial connectors are
> TRB (2-lugs), and TRC (3-lugs).

--

Al Klase - N3FRQ
skywaves@bw.webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

End of BOATANCHORS Digest 2948
